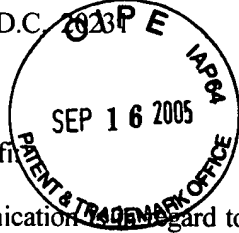


09-20-05

10/006,444

Attn: Mr. Behrooz Senfi, Art Unit 2613
Commissioner of Patents and Trademarks
Washington, D.C.



September 16, 2005

Dear Mr. Senfi:

This communication is in regard to Patent Application Serial No. 10/006,444 entitled "Optimizations for Live Event, Real-time, 3D Object Tracking."

In further response to both your Office Action dated March 11, 2005, and my interview at your offices on August 9th, please accept this supplemental amendment in which I provide additional arguments for your consideration, beyond those of my letter dated August 7th, 2005, as to why I believe Jain et al does not disclose my invention as either specified or claimed.

Also, please cancel my original Claims 1 through 33 and add the following new Claims 34 through 49:

Claim 34. An automated system for tracking the movement of multiple objects within a predefined area comprising:

a first set of cameras forming a fixed area tracking matrix for first detecting the motion of each object in (X, Y) space;

a first algorithm operated on a computer system responsive to the first set of cameras for determining the (X, Y) location of each object;

a second set of cameras forming a movable volume tracking matrix responsive to the determined (X, Y) locations from the first algorithm for controllably detecting the motion of each object in (X, Y, Z) space; and

a second algorithm operated on the computer system responsive to the second set of cameras for determining the (X, Y, Z) dimensional characteristics of each object and for forming a database representative of each object's locations, movements and dimensional characteristics.

Claim 35. The system of claim 34 wherein the combined fields-of-view from all cameras in the first set of cameras form a single contiguous and approximately coplanar field-of-view that is substantially parallel to the ground surface within the tracking area.

Claim 36. The system of claim 35 further comprising:

one or more energy sources emitting non-visible energy that is detected by both the first set of area tracking cameras and the second set of volume tracking cameras;

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